

**COMMITTEE STAFF PROCUREMENT
BACKUP BOOK**

FY 1998/1999 BIENNIAL BUDGET ESTIMATES

FEBRUARY 1997



THE JOINT STAFF

19970326 016

19970326 016

THE JOINT STAFF
FY 1998/FY 1999 PRESIDENT'S BUDGET
Procurement, Defense-Wide

Supporting Exhibits

P-1	Procurement Program
P-5	Program Cost Breakdown
P-5a	Budget Procurement History & Planning
P-20	Requirements Study
P-40	Budget Item Justification Sheet

Exhibit P-1, Procurement Program
THE JOINT STAFF

Date: February 1997

Appropriation: Procurement, Defense Agencies
Budget Activity: 1

P-1 Line Item No	Item Nomenclature	Ident Code	Unit Cost	TOA, \$ in Millions		
				FY96 Cost	FY97 Cost	FY98 Cost
32	JCS, Major Equipment	A	N/A	\$37.774	\$35.210	\$46.847
						\$49.331

Exhibit P-5 Cost Analysis		Weapon System: N/A		Date: February 1997	
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number		ID Code		P-1 Line Item Nomenclature	
Procurement, Defense Wide, The Joint Staff / 01				MAJOR EQUIPMENT	
WBS COST ELEMENTS (Tailor to System/Item Rqmts)	IDCode	FY 1996	FY 1997	FY 1998	FY 1999
(\$ in Millions)					
<u>0902298J: Management Headquarters</u>					
JSAN & Other Mgmt Hq	DOM	6.337	5.786	9.382	9.628
CINC Support	J-8	1.041	1.384	1.420	1.460
System Modernization	J-8	1.379	1.100	1.128	1.160
0208043J: ISLAND SUN *	J-3	7.042	4.990	4.739	4.733
0201135J: CINC C2 Initiatives Program	J-6	10.834	10.331	11.033	10.957
<u>0303149J: C4I for the Warrior</u>					
STEP & JWID	J-6	8.846	10.360	10.192	13.028
Joint C4ISR Battle Center (JBC)	J-8	0.000	0.000	4.903	5.004
0208049J: Jt Warfighting Center	J-7	0.695	1.259	3.204	2.497
0208052J: Jt Analytic Model Improvement Prmg	J-8	1.600	0.000	0.846	0.864
TOTAL JOINT STAFF		37.774	35.210	46.847	49.331
* ISLAND SUN is a Secretary of Defense approved Special Access Program. Justification and description will be submitted under a different cover.					

Exhibit P-5a, Procurement History and Planning)				Weapon System N/A		DATE: February 1997				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number										
Procurement, Defense-Wide, The Joint Staff / 01										
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 96 TOTAL	various	6.337	various	various	various	various	various	various	no	
FY 97 TOTAL	various	5.786	various	various	various	various	various	various	no	
FY 98 TOTAL	various	9.382	various	various	various	various	various	various	no	
FY 99 TOTAL	various	9.628	various	various	various	various	various	various	no	
Remarks: Joint Staff Automated Network (JSAN) is the local area network for the Joint Staff. It supports the Office of the Secretary of Defense (OSD) mandate to migrate outdated messaging systems to the Defense Messaging System (DMS). Procurement funds provide for 1) the upgrade of approximately one-third of all Joint Staff Action Officer workstations per year from Intel 486/66 based workstations to Intel based P166/P200, to include new or more capable peripherals (printers, scanners, CD-ROMs): 2)continue efforts to expand external connectivity; continue enhancements to Joint Staff Action Processing (JSAP) system; 3)continue network and server technology refreshment; continues efforts to consolidate corporate databases structure; and 4) continue efforts to expand multi-level security processing through the implementation of additional personal computer card readers and Fortezza cards. FY98 & FY99 include funds to purchase desktop computer systems, software, and peripherals to connect the Joint Theater Air & Missile Defense Organization (JTAMDO) to JSAN. Other Management Headquarters: FY99 includes funding to procure a new vehicle for the Chairman (\$155 thousand).										

Exhibit P-5a, Procurement History and Planning(Page 1)				Weapon System N/A		DATE: February 1997				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number						Program Element: 0902298J				
Procurement, Defense-Wide, The Joint Staff / 01						Management Headquarters - CINC SUPPORT				
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 96 TOTAL	various	1.041	various	various	various	various	various	various	no	
FY 97 TOTAL	various	1.384	various	various	various	various	various	various	no	
FY 98 TOTAL	various	1.420	various	various	various	various	various	various	no	
FY 99 TOTAL	various	1.460	various	various	various	various	various	various	no	

FY 96	TOTAL	various	1.041	various	various	various	various	various	no	
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FY 97	TOTAL	various	1.384	various	various	various	various	various	no	
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FY 98	TOTAL	various	1.420	various	various	various	various	various	no	
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FY 99	TOTAL	various	1.460	various	various	various	various	various	no	
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Remarks: The Joint Modeling and Simulation Field Support (known as Modern Aids to Planning Program, MAPP) was established by the Joint Chiefs of Staff in July 1985. The program is a continuing technical services program under the responsibility of the Director for Force Structure, Resources, and Assessment(J-8) This program and related funds, supports the combatant command analysis cells by all allowing the CINCs to capitalize on technical expertise. Procurement of equipment include 2x terminal nodes with encryption, Workstations, SUNSPARC, SPARC statio 20, 10Xgraphics cards, 10xVideo Camera/cards, 10x SUN SPACR 5, 12xHP9000, Supporting software, network analysis workstation, .1x SUN systems with external/deployable memory support.

Exhibit P-5a, Procurement History and Planning(Page 1)				Weapon System N/A				DATE: February 1997			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number								Program Element: 0902298J			
Procurement, Defense-Wide, The Joint Staff / 01								Management Headquarters System Modernization			
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available	
FY 96 TOTAL	various	1.379	various	various	various	various	various	various	no		
FY 97 TOTAL	various	1.100	various	various	various	various	various	various	no		
FY 98 TOTAL	various	1.128	various	various	various	various	various	various	no		
FY 99 TOTAL	various	1.160	various	various	various	various	various	various	no		
<p>Remarks: The Analysis Suite is a heterogeneous set of networks and systems providing modeling, simulations, and communications support for the analysis and assessment responsibilities of the Joint Staff. The equipment on the Analytical Network, the largest group of systems, is presently being upgraded. The processing on the system requirements expand to better support the improved capabilities of new computation technologies. These new technologies are being integrated over a four year phased approach. The first replacement/upgrade occurred in FY96. FY97-FY99 are scheduled to completely replace all outdated technologies on the Analysis Suite. Procurement purchases include network servers, administrator workstations, user workstations, laser printers, color printers, network file servers, routers, hubs, firewall backup systems, backup software, system management software tools, network management software tools, fiber optic cable, repair tool kits, test equipment, emergency components and optical systems.</p>											

Exhibit P-5a, Procurement History and Planning(Page 1)			Weapon System			N/A			Feb-97			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number										Program Element:		
Procurement, Defense-Wide, The Joint Staff / 01										0208043J, ISLAND SUN		
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available		
FY 96	N/A	7.042	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
FY 97	N/A	4.990	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
FY 98	N/A	4.739	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
FY 99	N/A	4.733	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Remarks: THIS IS A SECRETARY OF DEFENSE APPROVED SPECIAL ACCESS PROGRAM

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Exhibit P-5a, Procurement History and Planning(Page 1)				Weapon System		N/A		DATE: Jan 97		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number										
Procurement, Defense-Wide, The Joint Staff / 01										
Program Element: 0201135J										
Commander-in-Chief (CINC) Command & Control (C2) Initiatives										
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 96										
ACOM	various	0.757	various	various	various	various	various	various	no	
PACOM	various	1.706	various	various	various	various	various	various	no	
EUCOM	various	1.603	various	various	various	various	various	various	no	
TRANSCOM	various	1.732	various	various	various	various	various	various	no	
SPACECOM	various	1.548	various	various	various	various	various	various	no	
STRATCOM	various	0.787	various	various	various	various	various	various	no	
SOUTHCOM	various	1.524	various	various	various	various	various	various	no	
SOCOM	various	1.177	various	various	various	various	various	various	no	
TOTAL:		10.834								
FY 97										
ACOM	various	1.170	various	various	various	various	various	various	no	
PACOM	various	0.416	various	various	various	various	various	various	no	
EUCOM	various	1.405	various	various	various	various	various	various	no	
TRANSCOM	various	0.915	various	various	various	various	various	various	no	
SPACECOM	various	1.833	various	various	various	various	various	various	no	
STRATCOM	various	0.548	various	various	various	various	various	various	no	
SOUTHCOM	various	0.878	various	various	various	various	various	various	no	
SOCOM	various	1.235	various	various	various	various	various	various	no	
USCENTCOM	various	1.299	various	various	various	various	various	various	no	
OUT-OF-CYCLE RQTS		0.632								
TOTAL:		10.331								

Exhibit P-5a, Procurement History and Planning				Weapon System		N/A		DATE: Feb 97			
Appropriation (Treasury) Code/CC/BA/BBSA/Item Control Number				Program Element: 0201135J							
Procurement, Defense-Wide, The Joint Staff / 01				Commander-in-Chief (CINC) Command & Control (C2) Initiatives							
WBS COST ELEMENTS Tailor to System/Item Rqmts)		Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 98		TOTAL:	unknown	11.033	unknown	unknown	unknown	unknown	unknown	no	
FY 99		TOTAL:	unknown	10.957	unknown	unknown	unknown	unknown	unknown	no	
<p>Remarks: Funds are allocated to the CINCs based on their submitted requirements and in accordance with established guidelines (Joint Staff Instruction 7100.01, dtd 31 May 96). These funds provide the CINCs a capability to implement timely, low-cost, near-term improvements to their command and control systems.</p>											

Exhibit P-5a, Procurement History and Planning(Page 1)			Weapon System		DATE Feb 97					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number					Program Element:					
Procurement, Defense-Wide, The Joint Staff / 01					0303149J, C4I for the Warrior - (STEP & JWID)					
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 96										
Standard Tactical Entry Point (STEP										
Engineering, Fabrication, Integration		3.760	TYAD	N/A	MIPR	Tobyhana,PA	N/A	May-96	N/A	
FCC-100		1.000	CECOM	various	C/FP	Data Products	various	various	Yes	
Earth Term Hardware		2.500	PM SATCOM	various	C/FP	Melbourne, FL	various	various	Yes	
LRM, TSSP		0.130	TYAD	N/A	MIPR	Tobyhana,PA	N/A	various	Yes	
Long Lead Equipment		1.142	TYAD	various	MIPR	Tobyhana,PA	various	various	Yes	
SUB-TOTAL		8.532								
Joint Interop Warfight Demo (JWID)										
		0.314	DISA	various	various	multiple	various	Aug-96	Yes	
SUB-TOTAL		0.314								
FY96 GRAND -TOTAL										
8.846										
FY 97										
Standard Tactical Entry Point (STEP										
Engineering, Fabrication, Integration		2.230	TYAD	N/A	MIPR	Tobyhana,PA	various	various	Yes	
Small Unit Switches (SMU)/Earth Term		2.130	PM JTACS	TBD	C/FP	Taunton, MA	TBD	various	Yes	
Earth Term Hardware		1.303	PM SATCOM	various	C/FP	Melbourne, FL	various	various	Yes	
MIDAS Contract start up, NRE, FAT		3.960	CECOM	Nov-96	C/FP	TBD	TBD	Mar-98	Yes	
SUB-TOTAL		9.623								
Joint Interop Warfight Demo (JWID)										
		0.737	JTASC	various	various	multiple	various	Jul-97	No	
SUB-TOTAL		0.737								
FY97 GRAND -TOTAL										
10.360										

Exhibit P-5a, Procurement History and Planning(Page 1)				Weapon System		DATE: Feb 97				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number Procurement										
Program Element:										
0303149J, C4I for the Warrior - (STEP & JWID)										
Procurement, Defense-Wide, The Joint Staff / 01										
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$-Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 98										
Standard Tactical Entry Point (STEP										
Engineering, Fabrication, Integration		2.100	TYAD	N/A	MIPR	Tobyhana,PA	various	various	Yes	
Small Unit Switches (SMU)/Earth Term		3.150	PM JTACS	TBD	C/FP	Taunton, MA	TBD	various	Yes	
MIDAS, NRE, FAT		4.120	CECOM	Nov-96	C/FP	TBD	TBD	Mar-98	Yes	
SUB-TOTAL		9.370								
Joint Interop Warfight Demo (JWID)		0.822	JTASC	various	various	multiple	various	Jul-98	No	
SUB-TOTAL		0.822								
FY98 GRAND -TOTAL		10.192								
FY 99										
Standard Tactical Entry Point (STEP										
Engineering, Fabrication, Integration		2.100	TYAD	N/A	MIPR	Tobyhana,PA	various	various	Yes	
Small Unit Switches (SMU)/Earth Term		3.500	PM JTACS	TBD	C/FP	Taunton, MA	TBD	various	Yes	
MIDAS, NRE, FAT		6.608	CECOM	Nov-96	C/FP	TBD	TBD	Mar-98	Yes	
SUB-TOTAL		12.208								
Joint Interop Warfight Demo (JWID)		0.820	JTASC	various	various	multiple	various	Jul-99	No	
SUB-TOTAL		0.820								
FY99 GRAND -TOTAL		13.028								
Remarks: C4I for the Warrior is the enduring vision for the Joint Staff. The concepts supporting this vision consist of several major efforts in policy, doctrine and interoperability. As the concepts evolve and mature, they will spawn new approaches to providing the joint warfighter with a fused near real time, true representation of the battlespace. It is a unifying concept that brings the warrior an accurate and complete picture of the battlespace, timely and detailed mission objectives, and the clearest view of the targets. The C4ITW vision emphasizes joint C4I interoperability, takes advantage of the rapid pace of C4I technology advancements, and recognizes the constraints of a shrinking fiscal environment. STEP will enable the Joint task force commander and his component forces to deploy anywhere in the world with assurance of quickly obtaining reliable, mission essential communications. STEP facilitates the warfighter's ability to plug in and push pull information in a seamless, interoperable and global battlespace. JWIDs are Joint Staff sponsored demonstrations of new and evolving technologies, focused on solving CINC and Service identified warfighting deficiencies.										

Remarks: C4I for the Warrior is the enduring vision for the Joint Staff. The concepts supporting this vision consist of several major efforts in policy, doctrine and interoperability. As the concepts evolve and mature, they will spawn new approaches to providing the joint warfighter with a fused near real time, true representation of the battlespace. It is a unifying concept that brings the warrior an accurate and complete picture of the battlespace, timely and detailed mission objectives, and the clearest view of the targets. The C4IFTW vision emphasizes joint C4I interoperability, takes advantage of the rapid pace of C4I technology advancements, and recognizes the constraints of a shrinking fiscal environment. STEP will enable the Joint task force commander and his component forces to deploy anywhere in the world with assurance of quickly obtaining reliable, mission essential communications. STEP facilitates the warfighter's ability to plug in and push pull information in a seamless, interoperable and global battlespace. JWIDs are Joint Staff sponsored demonstrations of new and evolving technologies, focused on solving CINC and Service identified warfighting deficiencies.

Exhibit P-5a, Procurement History and Planning		Weapon System		N/A		DATE: Feb 97				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number				Program Element:						
Procurement, Defense-Wide, The Joint Staff / 01				0303149J - C4IFTW - (Joint C4ISR Battle Center)						
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 96		0.000								
FY 97		0.000								
TOTAL:										
FY 98		4.903	DISA	Nov-97	C/SS	unknown	May-98	Aug-98		
TOTAL:										
FY 99		5.004	DISA	N/A	C/SS	unknown	Feb-99	May-99		
<p>Remarks: The Joint Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Battle Center (JBC) will procure commercially available, off the shelf, technology components to insert into current Joint Task Force (JTF) architectures in a non-threat environment. These efforts will enable the Joint C4ISR Battle Center to focus on "real world" JTF interoperability issues and take advantage of the rapid pace of C4I technology advancements. Specifically, these procurements will be key components of scheduled C4ISR experiments that will lead to providing the warrior an accurate and complete picture of the battlespace in which he/she will prosecute their mission. Additionally, this funding is needed for advanced concept and prototype development of new, promising information technologies identified by the unified CINCs. The funding will leverage commercial technology development for military applications and would offset otherwise large investments of military-unique technologies.</p> <p>JBC grew out of the FY 1995 Chairman of the Joint Chiefs of Staff (CJCS) initiative to address the need to provide comprehensive joint warfighting capability that maintains a competitive military advantage dependent on the ability to effectively field evolutionary systems and equipment which assure joint operational capability dominance by quickly organizing and testing innovative C4ISR concepts. The Center will also ensure that as new C4ISR concepts surface, these concepts will be developed to share all C4ISR information with precision force generators which will engender a powerful environment for joint Services operational innovations. Industry driven technology advancements dictate rapid insertion into the Department of Defense (DoD) C4ISR infrastructure to maintain this competitive advantage.</p>										

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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number									Program Element:		
Procurement, Defense-Wide, The Joint Staff / 01									0208049J, Joint Warfighting Center		
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available	
FY 96	TOTAL:	0.695									
ADSI Box	1	0.110	DCMAO, San Antonio, TX	N/A	C	Advcd Prgming Concepts, Austin, TX	13-Feb-96				
Venturis 5100 PC's	50	0.003	TRADOC Contrac Act, VA	N/A	C	Digital Equip Corp, Merrimack, NH	15-May-96	28-Jun-96			
90Mhz Pentiums w/ Docking Stat	28	0.006	TRADOC Contrac Act, VA	N/A	C	Intel Elect, Englewood, CO	14-May-96	7-Aug-96			
Desktop Workstation	5	0.029	San Diego, CA	N/A	C	N/A	N/A	N/A			
SUN Sparc Comp Systm	3	0.043	Hampton, VA	N/A	C	N/A	N/A	N/A			
FY 97	TOTAL:	1.259									
Desktop computers and associated peripheral drives and software	150	0.004	TRADOC Contrac Act, VA	N/A	C	Digital Equip Corp, Merrimack, NH					
LaptopComputers and associated peripheral drives/sofstware upgrade	50	0.007	TRADOC Contrac Act, VA	N/A	C	Digital Equip Corp, Merrimack, NH					
Lan devices(printers,hubs, servers concentrators, UPS units, etc.	1	0.066	TRADOC Contrac Act, VA	N/A	C	Digital Equip Corp, Merrimack, NH					

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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number				Program Element:						
Procurement, Defense-Wide, The Joint Staff / 01				0208049J, Joint Warfighting Center						
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
External communication capabilities (web servers, concentrators, hubs, CSU/DSC,repeaters and bridges)	1	0.211	TRADOC Contrac Act, VA	N/A	C	Digital Equip Corp, Merrimack, NH				
FY 98 TOTAL:		3.204								
Exercise Support Equipment (Deployable Servers)	5	0.023	TRADOC Contrac Act, VA	N/A	C	Unknown				
Exercise Support Equipment (Developmental and deployable units)	72	0.038	TRADOC Contrac Act, VA	N/A	C	Unknown				
Replace desktop computers	100	0.004	TRADOC Contrac Act, VA	N/A	C	Unknown				
FY 99 TOTAL:		2.497								
Exercise Support Equipment (Developmental and deployable units)	66	0.038	TRADOC Contrac Act, VA	N/A	C	Unknown				
Remarks: The Joint Warfighting Center assists the Chairman of the Joint Chiefs of Staff (CJCS), Commander-in-Chiefs (CINCs), and Service Chiefs in the preparation for joint warfare through the conceptualization, development, and assessment of current and future joint doctrine; and through computer simulation provide support to CINC joint training and exercises.										

Exhibit P-5a, Procurement History and Planning				Weapon System N/A		DATE: Feb 97				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number				Program Element:						
Procurement, Defense-Wide, The Joint Staff / 01				0208052J, Joint Analytic Model Improvement Program						
WBS COST ELEMENTS Tailor to System/Item Rqmts)	Qty	\$=Million Unit Cost	Location of PCO	RFP Issue Date	Contract Method and Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available
FY 96 TOTAL:		1.600	various	various	various	various	various	various	no	
FY 97 TOTAL:		0.000	various	various	various	various	various	various	no	
FY 98 TOTAL:		0.846	various	various	various	various	various	various	no	
FY 99 TOTAL:		0.864	various	various	various	various	various	various	no	
Remarks: The Joint Analytic Model Improvement Program (JAMIP) is a Secretary of Defense-directed program to improve the state of analytical models throughout DoD. Joint Staff/J-8 shares the lead with OSD/PA&E. This program involves a four-prong approach to upgrade the capability of joint modeling to accurately assess the capabilities of our forces and programs to execute US strategy within the constraints of limited resources. The analytical efforts of the Joint Warfighting Capabilities Assessments (JWCA) process has highlighted the limitation of modeling tools currently available. Joint Analysis models are the Joint Staff analytical software tools and simulations supporting the assessment requirements of the Chairman of the Joint Chiefs of Staff. These tools assist in conducting studies and evaluation of military forces, programs, and strategies. Key functions include: (1) software development, maintenance, documentation, and training on Joint Staff analytic tools and simulation models; (2) development, design, and integration of database, graphics environment, and simulations; (3) software engineering of application software to achieve software portability, interoperability, efficiency, performance, and enhanced analyst productivity; (4) contracted technical expertise to assist Joint Staff military analysts; and, (5) exploring leading-edge technologies and methodologies in the joint modeling and simulation arena.										
Requirements are for the Joint Warfare System (JWARS) development environment (development servers, peripherals, and software), JWARS developer and analyst workstations and software, JWARS office automation (printers, FAX machines, hardware and software to support the JWARS Web Information Service), Joint Data System (JDS) primary servers (database, application, communications servers, peripherals and software), and JDS developer and analyst workstations and software. FY96 funds were used for the JWARS Office communications system, software development environment, desktop automation, and JDS hardware and software.										

Exhibit P-20, Requirements Study		Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number Procurement, Defense Wide, The Joint Staff (TJS) / 01						Date: February 1997	
P-1 Item Nomenclature MAJOR EQUIPMENT		Admin Leadtime (after Oct 1):						Prod Leadtime:	
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
Buy Summary					1				
Unit Cost (\$ in Million)					0.155				
Total Cost (\$ in Million)					0.155				
Asset Dynamics									
Beginning Asset Position		1		1	1		1	1	1
Deliveries from all prior year funding		1							
Deliveries from CY funding									
Deliveries from BY1 funding									
Deliveries from BY2 funding					1				
Deliveries from subsequent years' funding									
Other Gains									
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attritions/etc.					1				
End of Year Asset Position		1	1	1	1	1	1	1	1
Inventory Objective or Current Auth. Allow.		1	1	1	1	1	1	1	1
Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Vehicles Eligible for BY1 Replacement: 0	Aircraft: TOAL:				
Assets Rqd for Combat Loads:	PY thru	PY thru	PY thru	Vehicles Eligible for BY2 Replacement: 1	PAA: TAI				
WRM Rqmt:	PY-1:	PY-1:	PY-1:		Attrition Res:				
Pipeline:	PY-2:	PY-2:	PY-2:		BAI:				
Other	PY-3:	PY-3:	PY-3:		Inactive Inv:				
Total:					Storage:				
Remarks:									

Exhibit P-40, Budget Item Justification										Date: February 1997			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number										P-1 Item Nomenclature			
Procurement, Defense Wide, The Joint Staff (TJS)										MAJOR EQUIPMENT			
Program Element for Code B Items:										Other Related Program Elements			
Prior Years	ID Code	PY-1FY 1995	PYFY 1996	CYFY 1997	BY1FY 1998	BY2FY 1999	BY2+1FY 2000	BY2+2FY 2001	BY2+3FY 2002	BY2+4FY 2003	To Comp	Total	
		\$42.446	\$37.774	\$35.210	\$46.847	\$49.331	\$33.264	\$33.400	\$36.755	\$37.649	TBD	TBD	
Major Equipment													
<p>Description</p> <p>The following programs will be funded in FY 98FY99: (1) Commander-in-Chief (CINC) Command and Control (C2) provides funding for urgent command, control, and communications requirements. The 1987 Appropriations Act established the Commander-in-Chief (CINC) C2IP funding for this purpose. The procurement instituted under this program results in discernible improvements in the readiness/combat capability of the command by virtue of the CINC's enhanced ability to command and control the forces assigned to him. The funds provide for such items such as satellite communications terminals, special operations forces communication improvements, deployable communication assets, and improvements to system supporting contingency operations. (2) The C4IFTW promotes joint and coalition forces C4I interoperability. C4IFTW's three overlapping phases lead to global interoperability for US Forces deployed anywhere, on any mission at any time, with maximum flexibility in force composition. These procurement funds support this program in providing necessary hardware and connectivity. (3) C4IFTW also includes the Joint Battle Center which will assimilate demonstrations and experiments of large scale engineering required for architecture development of joint warfighting systems integration which leverage C4ISR technologies. (4) Headquarters Management provides procurement funds for miscellaneous equipment purchases for the Joint Staff. (5) Joint Warfighting Center will fund Wargame equipment suites, office Automation and peripheral systems. (6) Joint Analytic Model Improvement Program involves a four-prong approach to upgrade the capability of joint modeling to accurately assess the capabilities of our forces and programs to execute US strategy with the constraints of resources with funding used for software development, maintenance software engineering of application software. (7) Joint Theater Air & Missile Defense Organization will procure workstations and support equipment.</p>													